

AMENDMENTS TO THE CLAIMS

1. (Currently amended): A method for end node partitioning for a physical element, comprising the steps of:

selecting a configuration of the physical element, said physical element including a plurality of ports;

probing [[a port]] one of said plurality of ports that is included within said physical element, wherein the port is probed with a subnet management packet by a subnet manager;

in response to determining that said physical element is a particular type of physical element, partitioning said physical element to provide a plurality of virtual representations of said physical element, each one of said plurality of virtual representations having a unique access control level; and

partitioning said physical element by in response to detecting a switch associated with the port, assigning a different local identifier to the port each one of said plurality of ports that is included within said physical element resulting in a configuration change of the physical element.

2. (Original): The method as recited in claim 1, wherein selecting the configuration of the physical element includes a static selection of the physical element and a dynamic selection of the physical element.

3. (Original): The method as recited in claim 2, further comprising:
in response to a static selection of the physical element, modifying the configuration of the physical element through at least one of a fabric initialization and a reboot of a node associated with the port.

4. (Original): The method as recited in claim 2, further comprising:
in response to a dynamic selection of the physical element, modifying the configuration of the physical element through a reboot of a node associated with the port.

5. (Currently amended): The method as recited in claim 1, further comprising:
said physical element being one of a switch, a target channel adapter, and a host channel adapter.
~~in response to determining an additional port associated with the switch, assigning a local identifier to the additional port.~~
6. (Original): The method as recited in claim 1, further comprising:
in response to a host channel adapter and a host node becoming operational, reporting the host channel adapters and host processor node as they become operational.
-
7. (Original): The method as recited in claim 1, further comprising:
in response to removing a host channel adapter and a host node from operation, reporting the removal of the host channel adapter and the host node from operation.
8. (Original): The method as recited in claim 1, further comprising:
connecting one or more operating system images to at least one host channel adapter.
9. (Original): The method as recited in claim 8, wherein the host channel adapter is a virtual host channel adapter.
- 10-12. (Canceled)
13. (Currently amended): A system for end node partitioning for a physical element, comprising:
a selection component for selecting a configuration of the physical element, said physical element including a plurality of ports;
a probing component for probing one of said plurality of ports that is included within said physical element [[a port]], wherein the port is probed with a subnet management packet by a subnet manager;

in response to determining that said physical element is a particular type of physical element, partitioning means for partitioning said physical element to provide a plurality of virtual representations of said physical element, each one of said plurality of virtual representations having a unique access control level; and

an assignment component for partitioning said physical element by, ~~in response to detecting a switch associated with the port, for assigning a different local identifier to the port~~ each one of said plurality of ports that is included within said physical element resulting in a configuration change of the physical element.

14. (Original): The system as recited in claim 13, wherein selecting the configuration of the physical element includes a static selection of the physical element and a dynamic selection of the physical element.

15. (Original): The system as recited in claim 14, further comprising:
a modification component, in response to a static selection of the physical element, for modifying the configuration of the physical element through at least one of a fabric initialization and a reboot of a node associated with the port.

16. (Canceled)

17. (Currently amended): The system as recited in claim 13, further comprising:
said physical element being one of a switch, a target channel adapter, and a host channel adapter.

~~the assignment component, in response to determining an additional port associated with the switch, assigns a local identifier to the additional port.~~

18. (Original): The system as recited in claim 13, further comprising:
a reporting component, in response to a host channel adapter and a host node becoming operational, for reporting the host channel adapter and host processor node as they become operational.

19. (Original): The system as recited in claim 13, further comprising:
a reporting component, in response to removing a host channel adapter and a host node from operation, reporting the removal of the host channel adapter and the host node from operation.
20. (Original): The system as recited in claim 13, further comprising:
a connection component for connecting one or more operating system images to at least one host channel adapter.
21. (Original): The system as recited in claim 20, wherein the host channel adapter is a virtual host channel adapter.
22. (Currently amended): A computer program product in a computer readable medium for end node partitioning for a physical element, comprising:
instructions for selecting a configuration of the physical element, said physical element including a plurality of ports;
instructions for probing one of said plurality of ports that is included within said physical element [[a port]], wherein the port is probed with a subnet management packet by a subnet manager;
in response to determining that said physical element is a particular type of physical element, instructions for partitioning said physical element to provide a plurality of virtual representations of said physical element, each one of said plurality of virtual representations having a unique access control level; and
instructions for partitioning said physical element by ~~in response to detecting a switch associated with the port, for~~ assigning a different local identifier to ~~the port~~ each one of said plurality of ports that is included within said physical element resulting in a configuration change of the physical element.
23. (Original): The computer program product as recited in claim 22, wherein selecting the configuration of the physical element includes a static selection of the physical element and a dynamic selection of the physical element.

24. (Original): The computer program product as recited in claim 23, further comprising:

instructions, in response to a static selection of the physical element, for modifying the configuration of the physical element through at least one of a fabric initialization and a reboot of a node associated with the port.

25. (Original): The computer program product as recited in claim 23, further comprising:

instructions, in response to a dynamic selection of the physical element, for modifying the configuration of the physical element through a reboot of a node associated with the port.

26. (Currently amended): The computer program product as recited in claim 23, further comprising:

said physical element being one of a switch, a target channel adapter, and a host channel adapter.

~~instructions, in response to determining an additional port associated with the switch, for assigning a local identifier to the additional port.~~

27. (Currently amended): The computer program product as recited in claim 23, further comprising:

instructions, in response to a host channel adapter and a host node becoming operational, for reporting ~~reporting~~ the host channel adapters and host processor node as they become operational.

28. (Original): The computer program product as recited in claim 23, further comprising:

Instructions, in response to removing a host channel adapter and a host node from operation, for reporting removal of the host channel adapter and the host node from operation.

29. (Original): The computer program product as recited in claim 23, further comprising:

Instructions for connecting one or more operating system images to at least one host channel adapter.

30. (Original): The computer program product as recited in claim 29, wherein the host channel adapter is a virtual host channel adapter.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.